## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/004746

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl<sup>7</sup> G01N35/02, Cl2M1/02, Cl2N15/09, Cl2Q1/68, G01N1/36, 33/53, 37/00

According to International Patent Classification (IPC) or to both national classification and IPC

## FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl7 G01N33/48-37/00, C12M1/00-1/02, C12N15/09, C12Q1/68, G01N1/00-1/44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) JICST FILE (JOIS), WPI/L (QUESTEL)

## DOCUMENTS CONSIDERED TO BE RELEVANT

Further documents are listed in the continuation of Box C.

document defining the general state of the art which is not considered

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	JP 2003-339375 A (Hitachi, Ltd.),	1
Y	02 December, 2003 (02.12.03),	4-7,9-14
A	Par. No. [0031]; Fig. 5 (Family: none)	2,3,8
Y	JP 2003-329679 A (Akita-Ken),	4-7,9-14
	19 November, 2003 (19.11.03), Full text; Figs. 1 to 2 (Family: none)	2,3,8
Y	JP 2004-20386 A (Toray Industries, Inc.),	4-7,9-14
A	22 January, 2004 (22.01.04), Full text; Figs. 1 to 5 (Family: none)	2,3,8

See patent family annex.

later document published after the international filing date or priority date and not in conflict with the application but cited to understand

	to be of particular relevance		the principle or theory underlying the invention		
"E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is		"X"	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
cited to establish the publication date of another citation or other special reason (as specified)	<b>^</b> Y"	•			
"O" "P"	document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the		combined with one or more other such documents, such combination being obvious to a person skilled in the art		
	priority dale claimed	<b>"</b> &"	document member of the same patent family		
Date of the actual completion of the international search 07 April, 2005 (07.04.05)		Date of mailing of the international search report 26 April, 2005 (26.04.05)			
Nan	ne and mailing address of the ISA/ Japanese Patent Office	Aut	horized officer		
Facs	imile No.	Tele	ephone No.		

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Special categories of cited documents:

## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/004746

		101/012	003/004/46
C (Continuation)	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant	ant passages	Relevant to claim No.
A	JP 2003-248008 A (The Institute of Physi and Chemical Research), 05 September, 2003 (05.09.03), Full text; Figs. 1 to 4 & EP 1327473 A1 & US 2003134316 & & CN 1432428 A		1-14
P,A	JP 2004-144521 A (Hitachi, Ltd.), 20 May, 2004 (20.05.04), Full text; Figs. 1 to 16 & US 2004110278 A1		1-14
P,A	JP 2004-357698 A (Aloka Co., Ltd.), 24 December, 2004 (24.12.04), Full text; Figs. 1 to 8 (Family: none)		1-14
P,A	JP 2004-264289 A (Toray Industries, Inc. 24 September, 2004 (24.09.04), Full text; Figs. 1 to 5 (Family: none)	),	1-14
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